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Interactions with the Indian Traditional Healers on Anti-viral Herbs and Herpes Treatment

- Posted by [Pankaj Oudhia](#) on July 12, 2012 at 13:06
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Excerpts from my Jungle Diaries (April 2012 onwards) Part-11

(In continuation of Part-10)

“There is no cure of Herpes---. Please focus your research on only Herpes. Search the herbs and herbal Formulations and bring it to my lab. We can go further and one day develop new Formulation. Then there is no need for work life long. Imagine Dr. Oudhia Imagine.” It was response of one of

the participants attending International Conference in New Delhi. I was there for guest lecture on Indian Traditional Healing. He was university professor.

“I am already working on this aspect but yet not published my findings. I feel that I have not worked enough. That’s why I am waiting for more interactions with the Traditional Healers.” I replied.

“Don’t wait. Otherwise someone else will invent and patent the Formulations then we can get nothing.” He shouted from audience.

From his voice it was looking like that he is working with me since long time. In fact it was our first interaction. I simply put smile on my face and concluded my lecture.

In Year 1994 for the first time I visited to the local Ayurveda expert with my sick friend. It was the case of Herpes.

“This is skin disease common during rainy season. Please take some promising blood purifiers and creams for external use. You will be alright very soon.” The expert tried to assure.

After this initial treatment we returned back. My friend’s condition remained the same up to two days and trouble started increasing at alarming level later. We took the services of the Modern Medical Practitioner. He diagnosed the disease as Herpes.

“There is no cure for it. I am suggesting some anti-viral drugs for internal as well external use but please note these drugs will not cure it, only reduce the duration of trouble.” He said in clear words.

My friend’s worry increased many folds. Finally I decided to meet the Traditional Healers. We visited to Southern Chhattisgarh by bus. It was one night journey.

The Traditional Healer was in good mood when we visited to him. He examined the patient and then requested us to visit to forest for few hours for collection of medicinal herbs for his daily practice. The condition of patient was not good and also long bus journey was not comfortable. But we agreed after repeated request.

While travelling in forest in rainy season the Healer continuously shared funny jokes with us and it was memorable trip.

“When you laughed like today before?” The Healer asked seriously to my friend.

Surprised by this sudden question he replied “Many years back. I am much depressed these days due to education and employment. The financial condition of my family is not good. It is another cause of worry and mental tension.”

Now smile appeared on face of the Healer.

“The trouble you are facing is due to excess mental stress. Your body is not tolerating it. The stress has crossed all boundaries. By small trip to forest and laughing at my jokes now your body is full of vigor and free from stress for a while. Now my medicines will work in more efficient way. I must say that you are lucky that we have got time to pass in this manner today. Otherwise in long queue of patients every day it is very difficult for me to

give sufficient time to the patients like you. Only medicines take longer time in treating such cases. You are young. You must be full of vigor. Delete the word depression from your life and enjoy it. There are so many options." The Healer said.



(Traditional Healers of Chhattisgarh- Picture by Pankaj Oudhia)

"This trouble will appear again and again whenever you are in extreme stress. My medicines will give temporary relief but if you are interested in permanent cure then visit here and stay up to one month with me." He added.

Whatever the Healer was saying is mentioned in modern medical literature, although Healer was not aware of it. It was his experiences. But Modern Medical Sciences never claim that for permanent cure one month treatment is required. It was new information for me. I decided to stay with the Healer to document this unique treatment but my friend refused. I missed the golden opportunity.

“Most of patients take interest in short term treatment. Whenever they get the trouble again they approach again and return after temporary treatment. Rarely patients take one month long treatment. I always prefer this permanent cure because repeated attacks affect the body to great extent.” The Healer explained.

“They must be using bitter herbs. We have screened over 120 bitter herbs but failed to get positive results.” One of my friends working on Anti-viral drug discovery said with frustration.

I have noted that bitter herbs are rarely used for this purpose as single herb in Indian Traditional Healing but for sure toxic herbs are used. I am interacting the Traditional Healer of Kanker region from last ten year. He is having expertise in treatment of Herpes. He also treat many other complicated diseases including cancer. He was not interested in sharing his Traditional Knowledge.

“Keep giving you services without any break One day you will get the unique Formulation.” He assured in hard words. I was taking famous sweet dish Lasta for him in every visit. At first I thought he is interested in it but later I realized that he is interested in the Formulations I share with him. These Formulations were of the Healers of different parts of India. I have shared hundreds of Formulations and he has added most of the Formulations with some modifications in his daily practice. I was not worrying about it and also not expecting the unique Herpes Formulation from him. After having immense Traditional Medicinal Knowledge the Healer is gentle person. He takes no fee for treatment and many times I have observed him giving financial help to poor patients. He shares modified Formulations with me and when I suggest further modification he adopts it after detailed discussion. It was Guru-Chela relationship earlier but now it seems that we are good friends. I visit to forest with him and interact on medicinal herbs. I got valuable knowledge from him on Traditional Entomotherapy.

“After the end of rainy season please come for long time. We will go to forest for collection of Dongar Karha plant parts.” He requested many years back. On fixed day I visited to him and we started for collection of Dongar Karha along with his students.

“This is Dongar Karha. It is very very toxic plant but still very useful. We adopt Traditional purification methods up to many months in order to use it as medicine.” He informed.

“I am aware of Karha plant and written a lot on its different aspects. Why you are saying it as Dongar Karha? Only because it is growing in Dongar?” I replied.

“No, it means that you are yet not aware of this different species. It is Dongar Karha, different from Karha both in appearance as well as in medicinal properties.” He Disclosed and showed difference in both species.

Modern Plant Taxonomists consider it as single species but the differences showed by the Healer were enough to prove it as two different species. Earlier out of enthusiasm I was reporting such differences through my writings but seeing the leg pulling mentality of Indian Taxonomists I decided to keep it secret for the future generation or for serious readers. The socalled standard website for plant taxonomists “The Plant List” used as reference around the world is having thousands of mistakes and wrong information. No one is there to correct it. Also the plant names change in every two or three years. The Traditional Taxonomy practiced by the Traditional Healers is very simply and plant names are same since generations. Although they are not able to publish it in socalled academic journals of hi-impact factor but their work and science are of great importance to the humanity.

I spent few days with the Healer. We dipped the fresh plant parts in different solutions during this time.

“Before collecting its plant parts we treat the tree with number of Herbal formulations during different months of year. Through this process we enrich it.” He informed.

I returned back. After 6 months when visited to him again I found that he was still treating the plant parts collected 6 months earlier. I have seen many types of purification process in my life but this was some extra-ordinary process. One of his students tried to inform me secretly that he uses the plant parts in secret formulations for Herpes.

“Are you sure?” I asked.

“No, but it seems.” The student replied.

“There is no place of guessing in Traditional Knowledge Documentation. “ I said to the student.

“It’s hard to believe that some one uses Dongar Karha as medicine directly. I am aware of herbal formulations in which it is used but due to toxicity factor we have stopped using it. Bison and other animals feed on its leaves. I have observed that many Healers collect dung of these animals and use it as medicine. Dongar Karha parts present in dung play vital role. The disease about you are taking is considered difficult disease by us.” I was interacting with the Healers of Jashpur region near Orissa border. They were having no expertise in treatment of Herpes and I was taking their expert comments on Healing Methods of the Healer of Kanker region.

The Traditional Healers of Deobhog region of Chhattisgarh are aware of use of wild mushrooms. They know a lot about medicinal uses of wood mushroom. They collect it from decaying trees and use it in Medicinal Mushroom based Formulations. They add no medicinal herb in these Formulations only mushrooms. Through their generations old Mushroom therapy they claim to treat number of diseases. But in their therapy there are many restrictions in diet. Also in complicated cases the Healers give it under their superviosn. Although these Healers are less in number but in the field of Indian Traditional Healing very few such Healers are with us. They claim that they can treat even cure Herpes for ever with the help of this Mushroom therapy. I interacted with many patients treated by them. The interactions were encouraging. The Healers wanted to keep the Formulations secret and not interested in sharing earlier.



(Wood Mushroom- Picture by Pankaj Oudhia)

Many months after this interaction I arranged dream meet among the Healers of Deobhog using wild Mushroom and the Healer of Kanker using Dongar Karha for Herpes cure. At first the ego factor appeared as barrier but very soon they started interacting with each other. Later they started discussion on use of Mushroom and Dongar Karha combination for possible Herpes treatment. Both were thinking that the combination will minimize the duration of cure.

They returned back. Later the Healers of Deobhog informed that the processing of Dongar Karha is very tedious job and when we used processed plant parts in our formulations it failed to show any significant effect. The Healer of Kanker was having his own story. “I kept the proportion of Dongar Karha higher in my Formulations and added wild Mushrooms in lower quantity. It helped in minimizing the duration but due to Mushroom toxicity other health problems appeared.” He said.

At present none of these Healers is using the Wild Mushroom-Karha combination but I learnt a lot from this exercise. The Healers shared their knowledge but I feel many more such interactions are required. This combination can be improved with the help of Traditional Knowledge. I am confident about it. Through on-going surveys I am trying hard to share this Formulation with Traditional Herpes Experts and get their feedbacks. Hoping to arrange another interaction but this time with large number of Healers.

List of Selected Medicinal Herbs under screening for Anti-viral properties based on Traditional Knowledge Documentation

Acampe papillosa (LINDL.) LINDL. ORCHIDACEAE

Acampe praemorsa (ROXB.) BLATT. & MCCANN ORCHIDACEAE

Acanthospermum hispidum DC. ASTERACEAE

Achyranthes aspera L. AMARANTHACEAE

Acorus calamus L. ARACEAE

Acrocephalus hispidus (L.) NICOLS. & SIVADASAN LAMIACEAE

Actiniopteris radiata (SW.) LINK ACTINOPTERIDACEAE

Adenostemma lavenia (L.) KUNTZE ASTERACEAE

Adiantum capillus-veneris L. ADIANTACEAE

Adiantum incisum FORSK. ADIANTACEAE

Adiantum lunulatum L. ADIANTACEAE

Aeginetia indica L. OROBANCHACEAE

Aegle marmelos (L.) CORREA EX. SCHULTZ RUTACEAE

Aerides multiflorum ROXB. ORCHIDACEAE

Aerides odoratum LOUR. ORCHIDACEAE

Aerva lanata (L.) JUSS. EX SCHULT. AMARANTHACEAE

Aerva monsonia MART. AMARANTHACEAE

Aerva sanguinolenta (L.) BL. AMARANTHACEAE

Aeschynomene aspera L. FABACEAE

Aeschynomene indica L. FABACEAE

Agave cantala ROXB. AGAVACEAE

Agave sisalana PERR. AGAVACEAE

Ageratum conyzoides L. ASTERACEAE

Aglaia elaeagoidea (JUSS.) BENTH. MELIACEAE

Ailanthus excelsa ROXB. SIMAROUBACEAE

Ajuga macrosperma WALL. LAMIACEAE

Alangium salvifolium (L.F.) WANG. ALANGIACEAE *Albizia amara* (ROXB.) BOIVIN MIMOSACEAE

Albizia chinensis (OSBECK) MERR. MIMOSACEAE

Albizia lebbeck (L.) BENTH. MIMOSACEAE

Albizia odoratissima (L.F.)BENTH. MIMOSACEAE

Albizia procera (ROXB.) BENTH. MIMOSACEAE

Alcea rosea L. MALVACEAE

Alchornea tiliaefolia MUELL.-ARG. EUPHORBIACEAE

Allamanda cathartica L. APOCYNACEAE

Allium cepa L. LILIACEAE

Allium sativum L. LILIACEAE

Allmania nodiflora (L.) R.BR. EX WIGHT AMARANTHACEAE

Alloteropsis cimicina (L.) STAPR POACEAE

Alocasia macrorhiza (L.) G.DON ARACEAE

Aloe barbadensis MILL. LILIACEAE

Alstonia scholaris R.BR. APOCYNACEAE

Alstonia venenata R.BR. APOCYNACEAE

Alternanthera philoxeroides (MAR.) GRISEB. AMARANTHACEAE

Alternanthera pungens H.B.K. AMARANTHACEAE

Alternanthera sessilis (L.) R.BR.EX DC. AMARANTHACEAE

Althaea ludwigii L. MALVACEAE

Alysicarpus bupleurifolius (L.) DC. FABACEAE

Alysicarpus longifolius WIGHT. & ARN. FABACEAE

Alysicarpus monilifer DC. FABACEAE

Alysicarpus vaginalis (L.) DC. FABACEAE

Amaranthus blitum L. AMARANTHACEAE

Amaranthus caudatus L. AMARANTHACEAE

Amaranthus hybridus L. AMARANTHACEAE

Amaranthus lividus L. AMARANTHACEAE

Amaranthus lividus L. AMARANTHACEAE

Amaranthus spinosus L. AMARANTHACEAE

Amaranthus tricolor L. AMARANTHACEAE

Amaranthus viridis L. AMARANTHACEAE

Ammannia auriculata WILLD. LYTHRACEAE

Ammannia baccifera L. LYTHRACEAE

Amomum dealbatum ROXB. ZINGIBERACEAE

Amorphophallus bulbifer BLUME ARACEAE

Amorphophallus paeoniifolius (DENNST.) NICOLSON ARACEAE

Amorphophallus sylvaticus (ROXB.) KUNTH ARACEAE

Ampelocissus latifolia (ROXB.) PLANCH. VITACEAE

Ampelocissus tomentosa (ROTH.) PLANCH. VITACEAE

Anacardium occidentale L. ANACARDIACEAE

Anagallis arvensis L. PRIMULACEAE

Anaphalis adnata DC. ASTERACEAE

Andrographis paniculata (BURM.F.)WALLICH EX NEES. ACANTHACEAE

Anethum graveolens L. APIACEAE

Angelonia salicariaefolia HUMB. & BONPL. SCROPHULARIACEAE

Angiopteris evecta (FORST.) HOFFM. MARATTIACEAE

Anisochilus carnosus WALL. LAMIACEAE

Anisomeles indica (L.) O.KUNTZE LAMIACEAE

Annona reticulata L. ANNONACEAE

Annona squamosa L. ANNONACEAE

Anodendron paniculatum A.DC. APOCYNACEAE

Anogeissus acuminata WALL. COMBRETACEAE

Anogeissus latifolia WALL. EX. GUILL. & PERR. COMBRETACEAE

Anogeissus pendula EDGEW. COMBRETACEAE

Antidesma acidum RETZ. EUPHORBIACEAE *Antidesma bunius* WALL. EUPHORBIACEAE

Antidesma ghaesembilla GAERTN. FRUCT. EUPHORBIACEAE

Antidesma menasu (TULASNE) MULL.-ARG. EUPHORBIACEAE

Antirrhinum majus L. SCROPHULARIACEAE

Aphanamixis polystachya (WALL.) PARKER MELIACEAE

Apluda mutica L. POACEAE

Apluda varia HACK. POACEAE

Aponogeton natans (L.) ENGL. & KRAUSE APONOGETONACEAE

Arachis hypogaea L. FABACEAE

Ardisia solanacea ROXB. MYRSINACEAE

Argemone mexicana L. PAPAVERACEAE

Argyreia daltonii CLARKE IN HOOK.F. FL. CONVOLVULACEAE

Argyreia involucrata C.B. CLARKE CONVOLVULACEAE

Argyreia nervosa (BURM.F.) BOJ. CONVOLVULACEAE

Argyreia sericea Dalz. & Gib. CONVOLVULACEAE

Argyreia setosa (ROXB.) CHOISY CONVOLVULACEAE

Arisaema decipiens SCHOTT ARACEAE

Arisaema tortuosum SCHOTT ARACEAE

Aristida adscensionis L. POACEAE

Aristida depressa RETZ. POACEAE

Aristida setacea RETZ. POACEAE

Aristolochia indica L. ARISTOLOCHIACEAE

Artobotrys hexapetalus (L.F.) BHANDARI ANNONACEAE

Artemisia japonica THUNB. ASTERACEAE

Artemisia nilagirica (CLARKE) PAMP. ASTERACEAE

Artocarpus heterophyllus LAM. MORACEAE

Artocarpus lakoocha ROXB. MORACEAE

Arundo donax L. POACEAE

Asparagus racemosus WILLD. LILIACEAE

Asplenium falcatum LAM. ASPLENIACEAE

Asplenium laciniatum D.DON ASPLENIACEAE

Asplenium trichomanes L. ASPLENIACEAE

Aster amellus L. ASTERACEAE

Atalantia monophylla CORR. RUTACEAE

Athyrium filix-femina (L.) ROTH. ATHYRIACEAE

Atylosia platycarpa BENTH. FABACEAE

Atylosia scarabeoides BENTH. FABACEAE

Atylosia volubilis GAMBLE FABACEAE

Avena sativa L. POACEAE

Averrhoa carambola L. OXALIDACEAE

Azadirachta indica A. JUSS. MELIACEAE

Bacopa monnieri (L.) PENNELL SCROPHULARIACEAE

Balanites aegyptiaca (L.) DELILE BALANITACEAE

Baliospermum solanifolium (J.BURM.) SURESH EUPHORBIACEAE

Bambusa arundinacea WILLD. BAMBUSACEAE

Bambusa vulgaris SCHRAD. POACEAE

Barleria cristata L. ACANTHACEAE

Barleria longiflora L.F. ACANTHACEAE

Barleria montana NEES. ACANTHACEAE

Barleria prionitis L. ACANTHACEAE

Barleria strigosa WILLD. ACANTHACEAE

Barringtonia acutangula (L.) GAERTN. BARINGTONIACEAE

Basella alba L. BASELLACEAE

Bauhinia malabarica ROXB. CAESALPINIACEAE

Bauhinia purpurea L. CAESALPINIACEAE

Bauhinia racemosa LAM. CAESALPINIACEAE *Bauhinia vahlii* WIGHT & ARN. CAESALPINIACEAE

Bauhinia variegata L. CAESALPINIACEAE

Begonia picta SM. BEGONIACEAE

Belamcanda chinensis (L.) DC. IRIDACEAE

Benincasa hispida (THUNB.) COGN. CUCURBITACEAE

Bergia capensis L. ELATINACEAE

Beta vulgaris L. CHENOPODIACEAE

Bidens biternata (LOUR.) ASTERACEAE

Bidens pilosa L. ASTERACEAE

Biophytum apodisciac TUREZ. OXALIDACEAE

Biophytum reinwardtii (ZUCC.) KLOTZSCH OXALIDACEAE

Biophytum sensitivum (L.) DC. OXALIDACEAE

Bischofia javanica BL. EUPHORBIACEAE

Bixa orellana L. BIXACEAE

Blechnum orientale L. BLECHNACEAE

Blepharis maderaspatensis (L.) ROTH. ACANTHACEAE

Blepharispermum subsessile DC. ASTERACEAE

Blumea erienthala DC. ASTERACEAE

Blumea fistulosa (ROXB.) KURZ. ASTERACEAE

Blumea hieracifolia HOOK.F. ASTERACEAE

Blumea lacera DC. ASTERACEAE

Blumea laciniata (ROXB.) DC. ASTERACEAE

Blumea membranacea DC. ASTERACEAE

Blumea mollis (D.DON) MERR. ASTERACEAE

Blumea obliqua DRUCE ASTERACEAE

Blumea oxyodonta DC. ASTERACEAE

Blumeopsis flava (DC.) GAGNEP. ASTERACEAE

Blyxa octandra (ROXB.) PLANCH.EX.THW. HYDROCHARITACEAE

Boehmeria macrophylla HORN. URTICACEAE

Boerhavia diffusa L. NYCTAGINACEAE

Bombax ceiba L. BOMBACACEAE

Borassus flabellifer L. ARECACEAE

Borreria articularis (L.F.) WILLIAMS RUBIACEAE

Borreria hispida (L.) SCHUM. RUBIACEAE

Borreria pusilla (WALL) DC. RUBIACEAE

Boswellia serrata ROXB. BURSERACEAE

Bothriochloa odorata (LISBOA) A. CAMUS POACEAE

Bougainvillaea spectabilis WILLD. NYCTAGINACEAE

Brachiaria eruciformis (J.E.SMITH) GRISEB. POACEAE

Brachiaria ramosa STAPF. POACEAE

Brachiaria reptans

(L.) C.A. GARDNER & C.E.

HUBBARD POACEAE

Brassica juncea (L.) CZERN. BRASSICACEAE

Brassica juncea (L.) CZERN. BRASSICACEAE

Brassica napus L. BRASSICACEAE

Brassica oleracea L. BRASSICACEAE

Brassica oleracea L. BRASSICACEAE

Brassica rapa L. BRASSICACEAE

Brassica rapa L. BRASSICACEAE

Breynia retusa (DENNST.) ALSTON EUPHORBIACEAE

Breynia vitis-idaea (BURM.F.) FISCHER EUPHORBIACEAE

Bridelia montana WILLD. EUPHORBIACEAE

Bridelia retusa SPR. EUPHORBIACEAE

Bridelia squamosa (LAM.) GEHRM. EUPHORBIACEAE

Broussonetia papyrifera (L.) VENT. MORACEAE

Buchanania axillaris (DESR.) RAMAMOORTHY ANACARDIACEAE *Buchanania lanza* SPR. ANACARDIACEAE

Buddleja asiatica LOUR. BUDDLEJACEAE

Bulbostylis barbata (ROTTB.) CI. CYPERACEAE

Butea monosperma (LAM.) TAUB. FABACEAE

Butea parviflora ROXB. FABACEAE

Butea superba ROXB. FABACEAE

Byttneria herbacea ROXB. STERCULIACEAE

Caesalpinia bonduc (L.) ROXB. CAESALPINIACEAE

Caesalpinia coriaria WILLD. CAESALPINIACEAE

Caesalpinia crista L. CAESALPINIACEAE

Caesalpinia decapetala (ROTH) ALSTON. CAESALPINIACEAE

Caesalpinia digyna ROTTL. CAESALPINIACEAE

Caesalpinia pulcherrima (L.) SW. CAESALPINIACEAE

Caesulia axillaris ROXB. ASTERACEAE

Cajanus cajan (L.) MILLSP. FABACEAE

Caladium bicolor VENT. ARACEAE

Calendula officinalis L. ASTERACEAE

Callicarpa arborea ROXB. VERBENACEAE

Callicarpa macrophylla VAHL VERBENACEAE

Callistemon lanceolatus DC. MYRTACEAE

Calotropis gigantea (L.) R.BR. ASCLEPIADACEAE

Calotropis procera R.BR. ASCLEPIADACEAE

Calycopteris floribunda LAM. COMBRETACEAE

Campanula colorata WALL. CAMPANULACEAE

Canavalia gladiata (JACQ.) DC. FABACEAE

Canna coccinea MILL. CANNACEAE

Cannabis sativa L. CANNABINACEAE

Canscora decussata SCHULTES & SCHULTES.F. GENTIANACEAE

Canscora diffusa (VAHL) R. BR. GENTIANACEAE

Cansjera rheedii J.F. GMELIN OPILIACEAE

Canthium angustifolium ROXB. RUBIACEAE

Canthium dicoccum (GAERTN.) TEIJSM. & BINN. RUBIACEAE

Canthium rheedei DC. RUBIACEAE

Capparis zeylanica L. CAPPARACEAE

Capsicum annuum L. SOLANACEAE

Capsicum frutescens L. SOLANACEAE

Carallia brachiata (LOUR.) MERR. RHIZOPHORACEAE

Cardiospermum canescens WALL. SAPINDACEAE

Cardiospermum halicacabum L. SAPINDACEAE

Careya arborea ROXB. LECYTHIDACEAE

Carica papaya L. PASSIFLORACEAE

Carissa carandas L. APOCYNACEAE

Carissa congesta WT. APOCYNACEAE

Carissa opaca STAPF APOCYNACEAE

Carissa spinarum L. APOCYNACEAE

Carthamus oxyacantha BIEB. ASTERACEAE

Carthamus tinctorius L. ASTERACEAE

Carum strictocarpum C.B.CLARK. APIACEAE

Caryopteris odorata ROBIN. VERBENACEAE

Caryota urens L. ARECACEAE

Cascabela thevetia (L.) LIPPOLD APOCYNACEAE

Casearia elliptica WILLD. FLACOURTIACEAE

Casearia graveolens DALZ. FLACOURTIACEAE

Cassia absus L. CAESALPINIACEAE

Cassia alata L. CAESALPINIACEAE

Cassia auriculata L. CAESALPINIACEAE *Cassia fistula* L. CAESALPINIACEAE

Cassia hirsuta L. CAESALPINIACEAE

Cassia mimosoides L. CAESALPINIACEAE

Cassia obtusifolia L. CAESALPINIACEAE

Cassia occidentalis L. CAESALPINIACEAE

Cassia pumila LAMK. CAESALPINIACEAE

Cassia senna L. CAESALPINIACEAE

Cassia siamea LAMK. CAESALPINIACEAE

Cassia sophera L. CAESALPINIACEAE

Cassia surattensis BRUN. F. CAESALPINIACEAE

Cassia tora L. CAESALPINIACEAE

Cassine glauca (ROTTB.) O.KTZE. CELASTRACEAE

Cassytha filiformis L. CASSYTHACEAE

Catharanthus pusillus (MURR.) G. DON APOCYNACEAE

Catharanthus roseus (L.) G.DON APOCYNACEAE

Catimbium malaccense (BURM.F.) HOLTTUM ZINGIBERACEAE

Catunaregam uliginosa (RETZ.) SIVARAJAN RUBIACEAE

Catunaregum spinosa (THUNB.) TIRVENGADUM RUBIACEAE

Cayratia auriculata (ROXB.)GAMBLE VITACEAE

Cayratia trifolia (L.) DOMIN VITACEAE

Cedrela toona ROXB. MELIACEAE

Ceiba pentandra (L.) GAERTN. BOMBACACEAE

Celastrus paniculatus WILLD. CELASTRACEAE

Celosia argentea L. AMARANTHACEAE

Celosia cristata L. AMARANTHACEAE

Celtis tetrandra ROXB. ULMACEAE

Celtis timorensis SPAN. ULMACEAE

Cenchrus ciliaris L. POACEAE

Centaurium centaurioides (ROXB.) ROLLA RAO GENTIANACEAE

Centella asiatica (L.) URBAN APIACEAE

Centipeda minima (L.) A.BR. ASTERACEAE

Centratherum anthelminticum (L.) KUNTZE ASTERACEAE

Ceratophyllum demersum L. CERATOPHYLLACEAE

Ceratopteris thalictroides (L.) BRONGN. PARKERIACEAE

Ceriscoides turgida (ROXB.) TIRUV. RUBIACEAE

Ceropegia bulbosa ROXB. ASCLEPIADACEAE

Ceropegia candelabrum L. ASCLEPIADACEAE

Ceropegia hirsuta Wight & Arn. ASCLEPIADACEAE

Ceropegia tuberosa ROXB. ASCLEPIADACEAE

Cestrum nocturnum L. SOLANACEAE

Cheilanthes albomarginata C.B. CLARKE CHEILANTHACEAE

Cheilanthes farinosa (FORST.) KAULF. CHEILANTHACEAE

Cheilanthes tenuifolia (N.BURM.) SW. CHEILANTHACEAE

Chenopodium album L. CHENOPODIACEAE

Chenopodium ambrosioides BERT. EX STEUD. CHENOPODIACEAE

Chenopodium murale L. CHENOPODIACEAE

Chionachne koenigii (SPRENG.) THW. POACEAE

Chionanthus mala-elengi (DENNST.) GREEN OLEACEAE

Chloris virgata SW. POACEAE

Chlorophytum arundinaceum BAKER LILIACEAE

Chlorophytum laxum R.BR. LILIACEAE

Chlorophytum tuberosum BAKER LILIACEAE

Chloroxylon swietenia DC. FLINDERSIACEAE

Christella arida (DON) HOLT. THELYPTERIDACEAE

Chromolaena odorata (L.) R.M. KING & H. ROBINSON ASTERACEAE

Chrozophora plicata A.JUSS. EUPHORBIACEAE *Chrozophora prostrata* DALZ. EUPHORBIACEAE

Chrozophorarottleri (GEIS.) A.JUSS. EX SPRENG. EUPHORBIACEAE

Chrysanthellum americanum (L.) VATKE ASTERACEAE

Chrysanthemum indicum L. ASTERACEAE

Chrysopogon aciculatus TRIN. POACEAE

Chrysopogon fulvus (SPRENG.) CHIOV. POACEAE

Cicer arietinum L. FABACEAE

Cinnamomum tamala NEES & EBERM. LAURACEAE

Cinnamomum verum PRESL LAURACEAE

Cipadessa baccifera (ROTH.) MIQ. MELIACEAE

Cissampelos pareira L. MENISPERMACEAE

Cissus quadrangularis L. VITACEAE

Cissus repanda VAHL VITACEAE

Cissus vitiginea L. VITACEAE

Citrullus lanatus

(THUNB.) MATSUMARA &

NAKAI CUCURBITACEAE

Citrus aurantifolia (CHRISTM.) SWINGLE RUTACEAE

Citrus limon (L.) BURM.F. RUTACEAE

Citrus maxima MERR. RUTACEAE

Citrus medica L. RUTACEAE

Cleistanthus collinus (ROXB.) BENTH. & HOOK. EUPHORBIACEAE

Clematis gauriana ROXB. RANUNCULACEAE

Clematis smilacifolia WALL. RANUNCULACEAE

Clematis wightiana WALL. EX WT. & ARN. RANUNCULACEAE

Cleome chelidonii L.F. CLEOMACEAE

Cleome gynandra L. CLEOMACEAE

Cleome monophylla L. CLEOMACEAE

Cleome viscosa L. CLEOMACEAE

Clerodendrum indicum (L.) KUNTZE VERBENACEAE

Clerodendrum inerme (L.) GAERTN. VERBENACEAE

Clerodendrum multiflorum G. DON VERBENACEAE

Clerodendrum philippinum SCHAU. VERBENACEAE

Clerodendrum phlomides L.F. VERBENACEAE

Clerodendrum serratum (L.) MOON VERBENACEAE

Clerodendrum viscosum H.W. MOLDENKE VERBENACEAE

Clitoria ternatea L. FABACEAE

Coccinia grandis (L.) VOIGT CUCURBITACEAE

Cocculus hirsutus (L.) DIELS MENISPERMACEAE

Cochlospermum religiosum (L.) ALSTON COCHLOSPERMACEAE

Cocos nucifera L. ARECACEAE

Codiaeum variegatum (L.) BL. EUPHORBIACEAE

Coffea arabica L. RUBIACEAE

Coffea bengalensis HEYNE EX ROEM. & SCHULT RUBIACEAE

Coix gigantea KOENIG EX ROXB. POACEAE

Coix lacryma-jobi L. POACEAE

Coldenia procumbens L. BORAGINACEAE

Colebrookea oppositifolia SM. LAMIACEAE

Coleus amboinicus LOUR. LAMIACEAE

Coleus scutellarioides (L.) BENTH. LAMIACEAE

Colocasia esculenta (L.) SCHOTT ARACEAE

Combretum decandrum ROXB. COMBRETACEAE

Combretum nanum DON COMBRETACEAE

Commelina benghalensis L. COMMELINACEAE

Commelina diffusa BURM.F. COMMELINACEAE

Commelina longifolia LAM. COMMELINACEAE

Commelina paludosa BI. COMMELINACEAE *Commelina suffruticosa* BI. COMMELINACEAE

Commicarpus chinensis (L.) HEIMERL NYCTAGINACEAE

Convolvulus prostratus FORSSK. CONVOLVULACEAE

Conyza japonica (THUNB.) LESS EX DC. ASTERACEAE

Conyza stricta WILLD. ASTERACEAE

Corchorus aestuans L. TILIACEAE

Corchorus capsularis L. TILIACEAE

Corchorus fascicularis LAM. TILIACEAE

Corchorus olitorius L. TILIACEAE

Corchorus trilocularis L. TILIACEAE

Cordia dichotoma FORST. F. CORDIACEAE

Cordia grandis ROXB. CORDIACEAE

Cordia macleodii HOOK.F. CORDIACEAE

Cordia monoica ROXB. CORDIACEAE

Cordia obliqua WILLD. CORDIACEAE

Coriandrum sativum L. APIACEAE

Costus speciosus (KOEN. EX RETZ.) SM. COSTACEAE

Cotula anthemoides L. ASTERACEAE

Crassocephalum crepidioides (BTH.) MOORE ASTERACEAE

Crinum asiaticum L. AMARYLLIDACEAE

Crinum viviparum (LAM.) HEMADRI AMARYLLIDACEAE

Crossandra infundibuliformis (L.) NEES ACANTHACEAE

Crotalaria albida HEYNE EX ROTH. FABACEAE

Crotalaria bialata SCHR. FABACEAE

Crotalaria calycina SHR. FABACEAE

Crotalaria juncea L. FABACEAE

Crotalaria laburnifolia L. FABACEAE

Crotalaria linifolia L.F. FABACEAE

Crotalaria medicaginea LAM. FABACEAE

Crotalaria mysorensis ROTH. FABACEAE

Crotalaria prostrata ROTTL. EX WILLD. FABACEAE

Crotalaria quinquefolia L. FABACEAE

Crotalaria spectabilis ROTH. FABACEAE

Crotalaria verrucosa L. FABACEAE

Croton bonplandianum BAILL. EUPHORBIACEAE

Croton roxburghii BALAK. EUPHORBIACEAE

Cryptolepis buchananii ROEMER & SCHULTES PERIPLOCACEAE

Cryptolepis elegans WALL. EX G. DON. PERIPLOCACEAE

Cryptostegia grandiflora R.BR. ASCLEPIADACEAE

Cucumis melo L. CUCURBITACEAE

Cucumis melo L. CUCURBITACEAE

Cucumis prophetarum L. CUCURBITACEAE

Cucumis sativus L. CUCURBITACEAE

Cucumis trigonus ROXB. CUCURBITACEAE

Cucurbita maxima DUCHESNE CUCURBITACEAE

Cucurbita moschata (LAM.) DUCHESNE EX POIR. CUCURBITACEAE

Cucurbita pepo L. CUCURBITACEAE

Cuminum cyminum L. APIACEAE

Curculigo capitulata (LOUR.) KUNTZE HYPOXIDACEAE

Curculigo orchioides GAERTN. HYPOXIDACEAE

Curcuma amada ROXB. ZINGIBERACEAE

Curcuma angustifolia ROXB. ZINGIBERACEAE

Curcuma aromatica SALISB. ZINGIBERACEAE

Curcuma longa L. ZINGIBERACEAE

Curcuma pseudomontana GRAHAM ZINGIBERACEAE

Curcuma zedoaria (CHRIST.) ROSCOE ZINGIBERACEAE *Cuscuta reflexa* ROXB. CONVOLVULACEAE

Cyamopsis tetragonoloba (L.) TAUB. FABACEAE

Cyanotis cristata (L.) DON COMMELINACEAE

Cyanotis tuberosa

(ROXB.) SCHULT. AND

SCHULT.F. COMMELINACEAE

Cyathea gigantea (WALL. EX HOOK.) HOLTT. CYATHEACEAE

Cyathocline purpurea (DON) ASTERACEAE

Cycas revoluta THUNB. CYCADACEAE

Cymbidium aloifolium (L.) SW. ORCHIDACEAE

Cymbopogon martini (ROXB.) WATS POACEAE

Cynodon dactylon (L.) PERS. POACEAE

Cynoglossum lanceolatum FORSSK. BORAGINACEAE

Cynoglossum wallichii G. DON BORAGINACEAE

Cynoglossum zeylanicum THUNB. BORAGINACEAE

Cyperus alopecuroides ROTTL. CYPERACEAE

Cyperus brevifolius (ROTTB.) HASSK. CYPERACEAE

Cyperus compactus RETZ. CYPERACEAE

Cyperus compressus L. CYPERACEAE

Cyperus corymbosus ROTTLE. CYPERACEAE

Cyperus cyperoides (L.) KUNTZE CYPERACEAE

Cyperus distans L.F. CYPERACEAE

Cyperus esculentus L. CYPERACEAE

Cyperus exaltatus RETZ. CYPERACEAE

Cyperus haspan BENTH. CYPERACEAE

Cyperus iria L. CYPERACEAE

Cyperus kyllingia ENDL. CYPERACEAE

Cyperus laevigatus L. CYPERACEAE

Cyperus michelianus (L.) LINK CYPERACEAE

Cyperus nutans VAHL. CYPERACEAE

Cyperus pangorei ROTTB. CYPERACEAE

Cyperus pilosus VAHL CYPERACEAE

Cyperus platystylis R.BR. CYPERACEAE

Cyperus rotundus L. CYPERACEAE

Cyperus scariosus R.BR. CYPERACEAE

Cyperus triceps (ROTTB.) ENDL. CYPERACEAE

Dactyloctenium aegyptium BEAUV. POACEAE

Dalbergia lanceolaria L.F. FABACEAE

Dalbergia latifolia ROXB. FABACEAE

Dalbergia paniculata ROXB. FABACEAE

Dalbergia sissoo ROXB. FABACEAE

Dalbergia volubilis ROXB. FABACEAE

Datura innoxia MILL. SOLANACEAE

Datura metel L. SOLANACEAE

Daucus carota APIACEAE

Deeringia amaranthoides (LAMK.) MERR. AMARANTHACEAE

Delonix elata (L.) GAMBLE CAESALPINIACEAE

Delonix regia (L.) GAMBLE CAESALPINIACEAE

Dendrobium moschatum (BUCH.-HAM.) SW ORCHIDACEAE

Dendrobium nobile LINDL. ORCHIDACEAE

Dendrocalamus strictus NEES POACEAE

Dendrophthoe falcata (L.F) ETTING. LORANTHACEAE

Dentella repens (L.) J.R. & G. FORSTER RUBIACEAE

Derris indica (LAM.) BENNET FABACEAE

Derris scandens (ROXB.) BENTH. FABACEAE

Desmanthus virgatus WILLD. MIMOSACEAE

Desmodium biarticulatum (L.) F.V.MUELL. FABACEAE *Desmodium dichotomum* (WILLD.) DC. FABACEAE

Desmodium gangeticum (L.) DC. FABACEAE

Desmodium gyroides DC. FABACEAE

Desmodium heterocarpon (LINN.) DC. FABACEAE

Desmodium heterophyllum DC. FABACEAE

Desmodium laxiflorum DC. FABACEAE

Desmodium microphyllum (THUNB.) DC FABACEAE

Desmodium motorium (HOUTT.) MERR. FABACEAE

Desmodium polycarpum DC. FABACEAE

Desmodium pulchellum BENTH.EX. BAKER. FABACEAE

Desmodium triangulare (RETZ.) MERR. FABACEAE

Desmodium triflorum DC. FABACEAE

Desmodium triquetrum (L.) DC. FABACEAE

Desmodium velutinum (WILLD.) DC. FABACEAE

Desmostachya bipinnata STAPF POACEAE

Dianthus caryophyllus L. CARYOPHYLLACEAE

Dianthus chinensis L. CARYOPHYLLACEAE

Dichanthium caricosum (L.) A. CAMUS POACEAE

Dichanthium pertusum CLYTON POACEAE

Dichrocephala integrifolia (L.F.) KTZE ASTERACEAE

Dichrostachys cinerea WIGHT & ARN. MIMOSACEAE

Dicliptera cuneata NEES ACANTHACEAE

Dicliptera roxburghiana NEES ACANTHACEAE

Dicliptera verticillata (FORSK.) CHRISTENS. ACANTHACEAE

Dicranopteris linearis (BURM.F.) UNDERW. DICRANOPTERIDACEAE

Digera muricata (L.) MART. AMARANTHACEAE

Dillenia aurea SIM. DILLENIACEAE

Dillenia indica L. DILLENIACEAE

Dillenia pentagyna ROXB. DILLENIACEAE

Dinebra retroflexa (VAHL) PANZER POACEAE

Dioscorea alata L. DIOSCOREACEAE

Dioscorea belophylla VOIGT EX HAINES DIOSCOREACEAE

Dioscorea bulbifera L. DIOSCOREACEAE

Dioscorea hamiltonii HK. F. DIOSCOREACEAE

Dioscorea hispida DENNST. DIOSCOREACEAE

Dioscorea oppositifolia L. DIOSCOREACEAE

Dioscorea pentaphylla L. DIOSCOREACEAE

Dioscorea puber BLUME DIOSCOREACEAE

Dioscorea wallichii HOOK.F. DIOSCOREACEAE

Diospyros cordifolia ROXB. EBENACEAE

Diospyros lancaefolia ROXB. EBENACEAE

Diospyros melanoxylon ROXB. EBENACEAE

Diospyros montana ROXB. EBENACEAE

Diospyros peregrina SENSU GURKE. EBENACEAE

Diospyros sylvatica ROXB. EBENACEAE

Diplazium esculentum (RETZ.) SW. ATHYRIACEAE

Diplocyclos palmatus (L.) JAFFREY CUCURBITACEAE

Dipteracanthus prostratus (POIR.) NEES ACANTHACEAE

Dipteracanthus suffruticosus (ROXB.) VOIGT ACANTHACEAE

Distemon indicum WEDD. URTICACEAE

Dodonaea angustifolia (L.F.) BENTH. SAPINDACEAE

Dodonaea viscosa (L.) JACQ. SAPINDACEAE

Dolichandrone atrovirens (HEYNE EX. ROTH) SPRAGUE BIGNONIACEAE

Dolichandrone falcata SEEMANN BIGNONIACEAE

Dolichos biflorus L. FABACEAE

Dombeya cayeyxii HORT. STERCULIACEAE *Dopatrium junceum* HAM. SCROPHULARIACEAE

Drimia indica (ROXB.) J.P. JESSOP LILIACEAE

Drosera burmannii VAHL DROSERACEAE

Drosera indica L. DROSERACEAE

Drymaria diandra BL. CARYOPHYLLACEAE

Dryopteris cochleata (DON) CHR. DRYOPTERIDACEAE

Dryopteris sparsa (DON) KTZE. DRYOPTERIDACEAE

Drypetes roxburghii (WALL.) HURUSAWA EUPHORBIACEAE

Duranta repens L. VERBENACEAE

Dysophylla stellata BENTH. LAMIACEAE

Echinochloa colona LINK. POACEAE

Echinochloa crusgalli (L.) P. BEAUV. POACEAE

Echinochloa stagnina (RETZ.) BEAUV. POACEAE

Echinops echinatus ROXB. ASTERACEAE

Eclipta prostrata (L.) L. ASTERACEAE

Ehretia laevis ROXB. EHRETIACEAE

Eichhornia crassipes SOLMS PONTEDERIACEAE

Elaeagnus conferta ROXB. ELAEAGNACEAE

Eleocharis dulcis

(BURM.F.) TRIN. EX

HENSCHEL. CYPERACEAE

Elephantopus scaber L. ASTERACEAE

Eleusine coracana (L.) GAERTN. POACEAE

Eleusine indica GAERTN. POACEAE

Elytrophorus spicatus (WILLD.) CAMUS POACEAE

Embelia ribes BURM.F. MYRSINACEAE

Embelia tsjeriam-cottam A.DC. MYRSINACEAE

Emblica officinalis GAERTN. EUPHORBIACEAE

Emilia sonchifolia (L.) DC. ASTERACEAE

Enhydra fluctuans LOUR. ASTERACEAE

Enicostemma axillare (LAM.) RAYNAL GENTIANACEAE

Entada phaseoloides MERRILL MIMOSACEAE

Entada rheedei SPRENG. MIMOSACEAE

Entada scandens BENTH. MIMOSACEAE

Equisetum diffusum DON EQUISETACEAE

Eragrostis ciliata NEES. POACEAE

Eragrostis gangetica (ROXB.) STEUD. POACEAE

Eragrostis nutans (RETZ.) NEES EX STEUD. POACEAE

Eragrostis tremula HOCHST. POACEAE

Eragrostis viscosa TRIN. POACEAE

Eranthemum nervosum

(VAHL) R. BR. EX ROEM &

SCHULTES ACANTHACEAE

Eranthemum purpurascens NEES ACANTHACEAE

Erechtites valerianaefolia (WOLF.) DC. ASTERACEAE

Erigeron alpinus L. ASTERACEAE

Erigeron asteroides ROXB. ASTERACEAE

Erigeron sublyratus DC. ASTERACEAE

Eriocaulon sieboldianum S. & Z. ERIOCAULACEAE

Erioglossum rubiginosum (ROXB.) BL. SAPINDACEAE

Eriolaena hookeriana WT. & ARN. STERCULIACEAE

Eriolaena quinquelocularis WIGHT STERCULIACEAE

Eriosema himalaicum OHASHI FABACEAE

Eruca sativa GARS. BRASSICACEAE

Erycibe paniculata ROXB. CONVOLVULACEAE

Eryngium foetidum L. APIACEAE

Erythrina resupinata ROXB. FABACEAE

Erythrina suberosa ROXB. FABACEAE *Erythrina variegata* L. FABACEAE

Erythropalum scandens BL. OLACACEAE

Eucalyptus tereticornis SM. MYRTACEAE

Eulaliopsis binata (RETZ.) C.E. HUBBARD POACEAE

Eulophia cullenii (WIGHT) BLUME ORCHIDACEAE

Eulophia explanata LINDL. ORCHIDACEAE

Eulophia herbacea LINDL. ORCHIDACEAE

Eulophia spectabilis (DENNST.) SURESH ORCHIDACEAE

Euphorbia acaulis ROXB. EUPHORBIACEAE

Euphorbia bombaiensis SANT. EUPHORBIACEAE

Euphorbia caducifolia HAINES EUPHORBIACEAE

Euphorbia chamaesyce L. EUPHORBIACEAE

Euphorbia dracunculoides LAM. EUPHORBIACEAE

Euphorbia granulata EUPHORBIACEAE

Euphorbia hirta L. EUPHORBIACEAE

Euphorbia hypericifolia L. EUPHORBIACEAE

Euphorbia milii DESMOUL EUPHORBIACEAE

Euphorbia neriifolia L. EUPHORBIACEAE

Euphorbia nivulia BUCH.-HAM. EUPHORBIACEAE

Euphorbia pulcherrima WILLD. EX KLOT. EUPHORBIACEAE

Euphorbia royleana BOISS. EUPHORBIACEAE

Euphorbia thymifolia L. EUPHORBIACEAE

Euphorbia tirucalli L. EUPHORBIACEAE

Eurya nitida KOTH. THEACEAE

Evolvulus alsinoides L. CONVOLVULACEAE

Evolvulus nummularis L. CONVOLVULACEAE

Exacum pedunculatum L. GENTIANACEAE

Exacum tetragonum ROXB GENTIANACEAE

Ficus arnottiana (MIQ.) MIQ. MORACEAE

Ficus bengalensis L. MORACEAE

Ficus gibbosa BL. MORACEAE

Ficus glabella BLUME MORACEAE

Ficus heterophylla L. F. MORACEAE

Ficus hispida L.F. MORACEAE

Ficus indica L. MORACEAE

Ficus microcarpa L.F. MORACEAE

Ficus mollis VAHL MORACEAE

Ficus palmata FORSK. MORACEAE

Ficus racemosa L. MORACEAE

Ficus religiosa L. MORACEAE

Ficus rumphii BLUME MORACEAE

Ficus semicordata BUCH. EX J. E. SMITH MORACEAE

Ficus tinctoria FORST. F. MORACEAE

Ficus tsiela ROXB. MORACEAE

Ficus tsjakela BURM .F. MORACEAE

Ficus virens AIT. MORACEAE

Fimbristylis argentea (ROTTB.) VAHL CYPERACEAE

Fimbristylis bisumbellata (FORSK.) BUB. CYPERACEAE

Fimbristylis diphylla VAHL. CYPERACEAE

Fimbristylis falcata (VAHL) KUNTH CYPERACEAE

Fimbristylis miliacea L. & VAHL. CYPERACEAE

Fimbristylis ovata (BURM.F.) KERN. CYPERACEAE

Firmiana colorata (ROXB.) R. BR. STERCULIACEAE

Flacourcia indica (BURM.F.) FLACOURTIACEAE

Flacourcia jangomas (LOUR.) RAEUSCH. FLACOURTIACEAE

Flagellaria indica L. FLAGELLARIACEAE *Flemingia chappar* BUCH.-HAM. EX BTH. FABACEAE

Flemingia grahamiana WIGHT & ARN. FABACEAE

Flemingia macrophylla (WILLD.) O.KTZE. EX MERR. FABACEAE

Flemingia nana ROXB. FABACEAE

Flemingia paniculata WALL. FABACEAE

Flemingia procumbens ROXB. FABACEAE

Flemingia semialata ROXB. FABACEAE

Flemingia strobilifera (L.) R.BR. FABACEAE

Flemingia wightiana GRAHAM EX WIGHT & ARN. FABACEAE

Floscopia scandens LOUR. COMMELINACEAE (Contd.)

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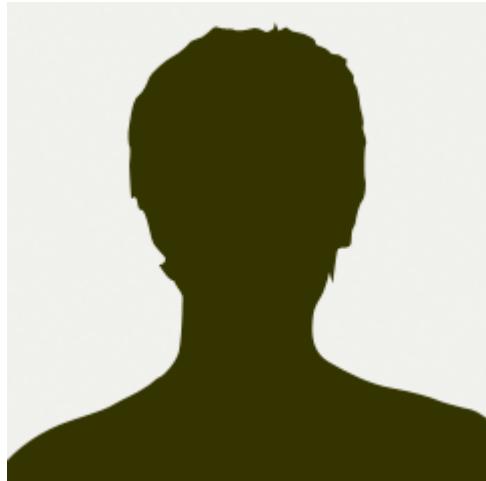
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